

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicant: Michael R. Slater et al.

Title: VECTORS FOR DIRECTIONAL CLONING

Docket No.: 341.030US1

Serial No.: 10/702,228

Filed: November 5, 2003

Due Date: N/A

Examiner: Unknown

Group Art Unit: 1653

**MS Amendment**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

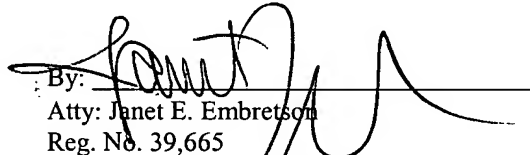
We are transmitting herewith the following attached items (as indicated with an "X"):

- ☒ Return postcard.
- ☒ Supplemental Information Disclosure Statement (2 pgs.), Form 1449 (2 pgs.), and copies of 26 cited documents, including the International Search Report for corresponding PCT Application No. PCT/US2004/031912 (16 pgs.).

If not provided for in a separate paper filed herewith, Please consider this a **PETITION FOR EXTENSION OF TIME** for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.


SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

Customer Number 21186

By:   
Atty: Janet E. Embretson  
Reg. No. 39,665

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 20th day of December, 2005.

  
Name

  
Signature

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

(GENERAL)

S/N 10/702,228

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	Michael R. Slater et al.	Examiner:	Unknown
Serial No.:	10/702,228	Group Art Unit:	1653
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Title:	VECTORS FOR DIRECTIONAL CLONING		

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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicant respectfully requests that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicant requests that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicant with the next official communication.

The attached documents were discovered as a result of a Search Report in Applicant's corresponding foreign patent application. Enclosed for the Examiner's information are a copies of several of the cited documents and the Search Report. Those documents not enclosed were cited in the Supplemental Information Disclosure filed October 26, 2005.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Supplemental Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Supplemental Information Disclosure Statement considered.

The Examiner is invited to contact the Applicant's Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

MICHAEL R. SLATER ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLÜTH, P.A.  
P.O. Box 2938  
Minneapolis, MN 55402  
(612) 373-6959

Date

December 20, 2005

By


Janet E. Embretson  
Reg. No. 39,665

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Name

JAMES KANYUSIK

Signature



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/702,228
Filing Date	November 5, 2003
First Named Inventor	Slater, Michael
Group Art Unit	1653
Examiner Name	Unknown

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Attorney Docket No: 341.030US1

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T <sup>2</sup>
	DE-19514310A1 (w/ English Abstract)	10/24/1996	Kulmburg, P., et al.	
	EP-0178863A1	04/23/1986	Reim, R L., et al.	
	EP-0517111A1	12/09/1992	Morgan, R , et al.	
	EP-0792934A1	09/03/1997	Gowrishankar, J., et al.	
	EP-0931835A2	07/28/1999	Chang, Zhiyuh, et al.	
	EP-1184462A2	03/06/2002	Fan, F., et al.	
	WO-91/05866A1	05/02/1991	Reim, R. L., et al.	
	WO-01/21817A1	03/29/2001	Muyldermans, S., et al.	
	WO-01/55369A1	08/02/2001	Mauro, V. P., et al.	

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		"International Search Report for corresponding PCT Application PCT/US2004/031912", (Attorney Docket No. 341.030WO1),(November 11, 2005),16 pgs.	
		BERGER, SHELBY L., et al., "Phoenix Mutagenesis: One-Step Reassembly of Multiply Cleaved Plasmids With Mixtures of Mutuant and Wild-Type Fragments", <u>Analytical Biochemistry</u> , 214, (1993),571-579	
		BOLTON, BRYAN J., et al., "Ksp6321, a Novel Class-IIIS Restriction Endonuclease From <i>Kluyvera</i> sp. Strain 632 With the Asymmetric Hexanucleotide Recognition Sequence: 5'-CTCTTC(N) <sub>1</sub> -3' 3'-GAGAAG(N) <sub>4</sub> -5'", <u>Gene</u> , 66, (1988),31-43	
		CHAPPELL, STEPHEN A., et al., "A 9nt Segment of a Cellular mRNA Can Function as an Internal Ribosome Entry Site (IRES) and When Present in Linked Multiple Copies Greatly Enhances IRES Activity", <u>Proc. Natl. Acad. Sci., USA</u> , 97(4), (February 15, 2000),1536-1541	
		CHEN, MARIO, et al., "The Roles of Signal Peptide and Mature Protein in RNase (Barnase) Export From <i>Bacillus subtilis</i> ", <u>Molecular &amp; General Genetics</u> , 239(3), (June, 1993), 409-415	
		CSIRIK, J., et al., "A Computer Algorithm to Determine the Recognition Site of Restriction Enzymes", <u>Computer Applications in the Biosciences</u> , 3(3), (September, 1987), 245-246	
		DENNIS, JONATHAN J., et al., "Rapid Generation of Nested Deletions by Differential Restriction Digestion", <u>Biotechniques</u> , 33(2), (August, 2002), 310,312,314-315	
		ELLROTT, KYLE P., et al., "Restriction Enzyme Recognition Sequence Search Program", <u>BioTechniques</u> , 33(6), (December, 2002), 1322-1326	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional) <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

**Application Number** 10/702,228**Filing Date** November 5, 2003**First Named Inventor** Slater, Michael**Group Art Unit** 1653**Examiner Name** Unknown

Sheet 2 of 2

Attorney Docket No: 341.030US1

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		HARTLEY, R W., "Barnase and Barstar - Expression of Its Cloned Inhibitor Permits Expression of a Cloned Ribonuclease", <u>Journal of Molecular Biology</u> , 202(4), (1988),913-915	
		JUCOVIC, M. , et al., "In vivo System for the Detection of Low Level Activity Barnase Mutants", <u>Protein Engineering</u> , 8(5), (1995),497-499	
		KASARJIAN, JULIE K., et al., "New Restriction Enzymes Discovered From Escherichia coli Clinical Strains Using a Plasmid Transformation Method", <u>Nucleic Acids Research</u> , 31(5), e22, (2003),10 pgs.	
		MARTINEZ-SALAS, ENCARNACIÓN, "Internal Ribosome Entry Site Biology and its Use in Expression Vectors", <u>Current Opinion in Biotechnology</u> , 10(5), (1999),458-464	
		MONACO, LUCIA, et al., "An in vivo Amplification Approach for the Expression of Recombinant Proteins in Mammalian Cells", <u>Biotechnology and Applied Biochemistry</u> , 20(2), (October, 1994),157-171	
		PRIOR, TREVOR I., et al., "Barnase Toxin: a New Chimeric Toxin Composed of Pseudomonas Exotoxin A and Barnase", <u>Cell</u> , 64(5), (March 8, 1991),1017-1023	
		STÜCKLE, ERIKA E., et al., "Statistical Analysis of Nucleotide Sequences", <u>Nucleic Acids Research</u> , 18(22), (1990),6641-6647	
		STUMPP, TINA , et al., "Ein neues, L-Rhamnose-Induzierbares Expressionssystem für <i>Escherichia coli</i> ", <u>Biospektrum, Spektrum Akademischer Verlag</u> , 6(1), (2000),33-36	
		VINCZE, TAMAS, et al., "NEBcutter: A Program to Cleave DNA With Restriction Enzymes", <u>Nucleic Acids Research</u> , 31(13), (July 1, 2003),3688-3691	

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